

TEST REPORT

Reg. No. : 402100702	Reg. Date : 24-Feb-2024 09:15	Ref.No :	Approved On : 24-Feb-2024 11:07
Name : Mr. PANKAJ KUMAR GUPTA			Collected On : 24-Feb-2024 09:38
Age : 36 Years	Gender: Male	Pass. No. :	Dispatch At :
Ref. By : APOLLO			Tele No. : 7506078108
Location :			

Test Name	Results	Units	Bio. Ref. Interval
Complete Blood Count			
<u>Specimen: EDTA blood</u>			
Hemoglobin			
Hemoglobin(SLS method)	16.1	g/dL	13.0 - 17.0
Hematocrit (calculated)	45.9	%	40 - 50
RBC Count(Ele.Impedence)	5.44	X 10 ¹² /L	4.5 - 5.5
MCV (Calculated)	84.4	fL	83 - 101
MCH (Calculated)	29.6	pg	27 - 32
MCHC (Calculated)	H 35.1	g/dL	31.5 - 34.5
RDW (Calculated)	13.7	%	11.5 - 14.5
Differential WBC count (Impedance and flow)			
Total WBC count	6800	/μL	4000 - 10000
Neutrophils	55	%	38 - 70
Lymphocytes	35	%	21 - 49
Monocytes	07	%	3 - 11
Eosinophils	03	%	0 - 7
Basophils	00	%	0 - 1
Platelet			
Platelet Count (Ele.Impedence)	249000	/cmm	150000 - 410000
MPV	10.10	fL	6.5 - 12.0
Platelets appear on the smear	Adequate		
Malarial Parasites	Not Detected		
EDTA Whole Blood			

Note: All abnormal hemograms are reviewed and confirmed microscopically. Peripheral blood smear and malarial parasite examination are not part of CBC report.

Test done from collected sample.

This is an electronically authenticated report.




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Ref. By : APOLLO Tele No. : 7506078108
Location :

Test Name	Results	Units	Bio. Ref. Interval
ESR	2	mm/hr	17-50 Yrs : <12, 51-60 Yrs : <19, 61-70 Yrs : <20, >70 Yrs : <30

Capillary Microphotometry

Sample Type: EDTA Whole Blood

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Approved by: Dr. Avinash B Panchal

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Location :

Test Name	Results	Units	Bio. Ref. Interval
BLOODGROUP & RH			
<u>Specimen: EDTA and Serum; Method: Gel card system</u>			
Blood Group "ABO" <i>Agglutination</i>	"A"		
Blood Group "Rh" <i>Agglutination</i>	Positive		
EDTA Whole Blood			

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Age : 36 Years Gender: Male Pass. No. : Dispatch At :
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Location :

Test Name	Results	Units	Bio. Ref. Interval
PERIPHERAL BLOOD SMEAR EXAMINATION <u>Specimen: Peripheral blood smear & EDTA blood, Method:Microscopy</u>			
RBC Morphology	RBCs are normocytic normochromic.		
WBC Morphology	Total WBC and differential count is within normal limit. No abnormal cells or blasts are seen.		
Differential Count	.		
Neutrophils	55	%	38 - 70
Lymphocytes	34	%	21 - 49
Monocytes	05	%	3 - 11
Eosinophils	06	%	0 - 7
Basophils	00	%	0 - 2
Platelets	Platelets are adequate with normal morphology.		
Parasite	Malarial parasite is not detected.		

Sample Type: EDTA Whole Blood

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TEST REPORT

Reg. No. : 402100702 Reg. Date : 24-Feb-2024 09:15 Ref.No : Approved On : 24-Feb-2024 13:26
Name : Mr. PANKAJ KUMAR GUPTA Collected On : 24-Feb-2024 09:38
Age : 36 Years Gender: Male Pass. No. : Dispatch At :
Ref. By : APOLLO Tele No. : 7506078108
Location :

Test Name	Results	Units	Bio. Ref. Interval
FASTING PLASMA GLUCOSE Specimen: Fluoride plasma			
Fasting Plasma Glucose <i>Hexokinase</i>	89.46	mg/dL	Normal: <=99.0 Prediabetes: 100-125 Diabetes :>=126

Fluoride Plasma

Criteria for the diagnosis of diabetes:

- HbA1c >= 6.5 *
Or
- Fasting plasma glucose >126 gm/dL. Fasting is defined as no caloric intake at least for 8 hrs.
Or
- Two hour plasma glucose >= 200mg/dL during an oral glucose tolerance test by using a glucose load containing equivalent of 75 gm anhydrous glucose dissolved in water.
Or
- In a patient with classic symptoms of hyperglycemia or hyperglycemic crisis, a random plasma glucose >= 200 mg/dL. *In the absence of unequivocal hyperglycemia, criteria 1-3 should be confirmed by repeat testing. American diabetes association. Standards of medical care in diabetes 2011. Diabetes care 2011;34;S11.

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Name : Mr. PANKAJ KUMAR GUPTA			Collected On : 24-Feb-2024 12:08
Age : 36 Years	Gender : Male	Pass. No. :	Dispatch At :
Ref. By : APOLLO			Tele No. : 7506078108
Location :			

Test Name	Results	Units	Bio. Ref. Interval
POST PRANDIAL PLASMA GLUCOSE			
<u>Specimen: Fluoride plasma</u>			
Post Prandial Plasma Glucose <i>Hexokinase</i>	L 93.25	mg/dL	Normal: <=139 Prediabetes : 140-199 Diabetes: >=200
Flouride Plasma			

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TEST REPORT

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Name : Mr. PANKAJ KUMAR GUPTA **Collected On** : 24-Feb-2024 09:38
Age : 36 Years **Gender**: Male **Pass. No.** : **Dispatch At** :
Ref. By : APOLLO **Tele No.** : 7506078108
Location :

Test Name	Results	Units	Bio. Ref. Interval
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GGT	26.3	U/L	10 - 71
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L-Y-Glutamyl-3 Carboxy-4-Nitroanilide, Enzymetic Colorimetric

Serum

Uses:

- Diagnosing and monitoring hepatobiliary disease.
- To ascertain whether the elevated ALP levels are due to skeletal disease or due to presence of hepatobiliary disease.
- A screening test for occult alcoholism.

Increased in:

- Intra hepatic biliary obstruction.
- Post hepatic biliary obstruction
- Alcoholic cirrhosis
- Drugs such as phenytoin and phenobarbital.
- Infectious hepatitis (modest elevation)
- Primary/ Secondary neoplasms of liver.

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Age : 36 Years	Gender: Male	Pass. No. :	Dispatch At :
Ref. By : APOLLO			Tele No. : 7506078108
Location :			

Test Name	Results	Units	Bio. Ref. Interval
LIPID PROFILE			
CHOLESTEROL	226.00	mg/dL	Desirable <=200 Borderline high risk 200 - 240 High Risk >240
Triglyceride <i>Enzymatic Colorimetric Method</i>	104.00	mg/dL	<150 : Normal, 150-199 : Border Line High, 200-499 : High, >=500 : Very High
Very Low Density Lipoprotein(VLDL) <i>Calculated</i>	21	mg/dL	0 - 30
Low-Density Lipoprotein (LDL) <i>Calculated Method</i>	H 150.44	mg/dL	< 100 : Optimal, 100-129 : Near Optimal/above optimal, 130-159 : Borderline High, 160-189 : High, >=190 : Very High
High-Density Lipoprotein(HDL)	54.56	mg/dL	<40 >60
CHOL/HDL RATIO <i>Calculated</i>	H 4.14		0.0 - 3.5
LDL/HDL RATIO <i>Calculated</i>	2.76		1.0 - 3.4
TOTAL LIPID <i>Calculated</i>	620.00	mg/dL	400 - 1000
Serum			

As a routine test to determine if your cholesterol level is normal or falls into a borderline-, intermediate- or high-risk category.
 To monitor your cholesterol level if you had abnormal results on a previous test or if you have other risk factors for heart disease.
 To monitor your body's response to treatment, such as cholesterol medications or lifestyle changes.
 To help diagnose other medical conditions, such as liver disease.
 Note : biological reference intervals are according to the national cholesterol education program (NCEP) guidelines.

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Location :

Test Name	Results	Units	Bio. Ref. Interval
LIVER FUNCTION TEST			
TOTAL PROTEIN	7.50	g/dL	6.6 - 8.8
ALBUMIN	4.83	g/dL	3.5 - 5.2
GLOBULIN <i>Calculated</i>	2.67	g/dL	2.4 - 3.5
ALB/GLB <i>Calculated</i>	1.81		1.2 - 2.2
SGOT	26.40	U/L	<35
SGPT	38.70	U/L	<41
Alkaline Phosphatase <i>ENZYMATIC COLORIMETRIC IFCC, PNP, AMP BUFFER</i>	87.20	U/L	40 - 130
TOTAL BILIRUBIN	0.94	mg/dL	0.1 - 1.2
DIRECT BILIRUBIN	0.19	mg/dL	<0.2
INDIRECT BILIRUBIN <i>Calculated</i>	0.75	mg/dL	0.0 - 1.00
Serum			

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Test Name	Results	Units	Bio. Ref. Interval
HEMOGLOBIN A1C (HBA1C) <i>High Performance Liquid Chromatography (HPLC)</i>	5.20	%	Normal: ≤ 5.6 Prediabetes: 5.7-6.4 Diabetes: ≥ 6.5 6-7 : Near Normal Glycemia, <7 : Goal , 7-8 : Good Control , >8 : Action Suggested.
Mean Blood Glucose <i>(Calculated)</i>	103	mg/dL	

Sample Type: EDTA Whole Blood

Criteria for the diagnosis of diabetes

- HbA1c ≥ 6.5 * Or Fasting plasma glucose >126 gm/dL. Fasting is defined as no caloric intake at least for 8 hrs. Or
- Two hour plasma glucose ≥ 200 mg/dL during an oral glucose tolerance test by using a glucose load containing equivalent of 75 gm anhydrous glucose dissolved in water. Or
- In a patient with classic symptoms of hyperglycemia or hyperglycemic crisis, a random plasma glucose ≥ 200 mg/dL. *In the absence of unequivocal hyperglycemia, criteria 1-3 should be confirmed by repeat testing. American diabetes association. Standards of medical care in diabetes 2011. Diabetes care 2011;34:S11.

Limitation of HbA1c

- In patients with Hb variants even analytically correct results do not reflect the same level of glycemic control that would be expected in patients with normal population.
 - Any cause of shortened erythrocyte survival or decreased mean erythrocyte survival or decreased mean erythrocyte age eg. hemolytic diseases, pregnancy, significant recent/chronic blood loss etc. will reduce exposure of RBC to glucose with consequent decrease in HbA1c values.
 - Glycated HbF is not detected by this assay and hence specimens containing high HbF ($>10\%$) may result in lower HbA1c values than expected. Importance of HbA1C (Glycated Hb.) in Diabetes Mellitus
- HbA1C, also known as glycated hemoglobin, is the most important test for the assessment of long term blood glucose control(also called glycemic control).
 - HbA1C reflects mean glucose concentration over past 6-8 weeks and provides a much better indication of long term glycemic control than blood glucose determination.
 - HbA1c is formed by non-enzymatic reaction between glucose and Hb. This reaction is irreversible and therefore remains unaffected by short term fluctuations in blood glucose levels.
 - Long term complications of diabetes such as retinopathy (Eye-complications), nephropathy (kidney-complications) and neuropathy (nerve complications), are potentially serious and can lead to blindness, kidney failure, etc.
 - Glycemic control monitored by HbA1c measurement using HPLC method (GOLD STANDARD) is considered most important. (Ref. National Glycohaemoglobin Standardization Program - NGSP)
- Note : Biological reference intervals are according to American Diabetes Association (ADA) Guidelines.

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Ref. By : APOLLO			Tele No. : 7506078108
Location :			

Bio-Rad CDM System
Bio-Rad Variant V-II Instrument #1

PATIENT REPORT
V2TURBO_A1c_2.0

Patient Data

Sample ID: 140203500536
 Patient ID:
 Name:
 Physician:
 Sex:
 DOB:

Analysis Data

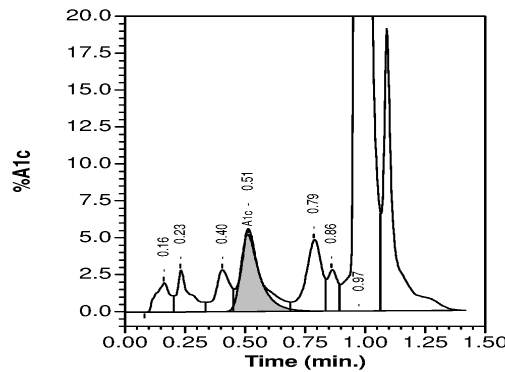
Analysis Performed: 24/02/2024 13:51:11
 Injection Number: 7948
 Run Number: 324
 Rack ID:
 Tube Number: 2
 Report Generated: 24/02/2024 13:53:11
 Operator ID:

Comments:

Peak Name	NGSP %	Area %	Retention Time (min)	Peak Area
A1a	---	1.2	0.160	22720
A1b	---	1.6	0.229	28931
LA1c	---	1.7	0.404	31906
A1c	5.2	---	0.511	82767
P3	---	3.4	0.787	63349
P4	---	1.2	0.860	23043
Ao	---	86.4	0.973	1601360

Total Area: 1,854,077

HbA1c (NGSP) = 5.2 %



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Age : 36 Years **Gender:** Male **Pass. No. :** **Dispatch At :**
Ref. By : APOLLO **Tele No. :** 7506078108
Location :

Test Name	Results	Units	Bio. Ref. Interval
THYROID FUNCTION TEST			
T3 (triiodothyronine), Total <small>CMIA</small>	0.99	ng/mL	0.70 - 2.04
T4 (Thyroxine), Total <small>CMIA</small>	9.74	µg/dL	4.6 - 10.5
TSH (Thyroid stimulating hormone) <small>CMIA</small>	2.099	µIU/mL	0.35 - 4.94

Sample Type: Serum

Comments:

Thyroid stimulating hormone (TSH) is synthesized and secreted by the anterior pituitary in response to a negative feedback mechanism involving concentrations of FT3 (free T3) and FT4 (free T4). Additionally, the hypothalamic tripeptide, thyrotropin-releasing hormone (TRH), directly stimulates TSH production. TSH stimulates thyroid cell production and hypertrophy, also stimulate the thyroid gland to synthesize and secrete T3 and T4. Quantification of TSH is significant to differentiate primary (thyroid) from secondary (pituitary) and tertiary (hypothalamus) hypothyroidism. In primary hypothyroidism, TSH levels are significantly elevated, while in secondary and tertiary hypothyroidism, TSH levels are low.

TSH levels During Pregnancy :

- First Trimester : 0.1 to 2.5 µIU/mL
- Second Trimester : 0.2 to 3.0 µIU/mL
- Third trimester : 0.3 to 3.0 µIU/mL

Reference : Carl A.Burtis,Edward R.Ashwood,David E.Bruns. Tietz Textbook of Clinical Chemistry and Molecular Diagnostics. 5th Edition. Philadelphia: WB Saunders,2012:2170

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Age : 36 Years	Gender: Male	Pass. No. :	Dispatch At :
Ref. By : APOLLO			Tele No. : 7506078108
Location :			

Test Name	Results	Units	Bio. Ref. Interval
<u>URINE ROUTINE EXAMINATION</u>			
<u>Physical Examination</u>			
Colour	Yellow		
Clarity	Clear		
<u>CHEMICAL EXAMINATION (by strip test)</u>			
pH	6.0		4.6 - 8.0
Sp. Gravity	1.030		1.002 - 1.030
Protein	Present(+)		Absent
Glucose	Nil		Absent
Ketone	Nil		Absent
Bilirubin	Nil		Nil
Nitrite	Absent		Nil
<u>MICROSCOPIC EXAMINATION</u>			
Leucocytes (Pus Cells)	1-2		0 - 5/hpf
Erythrocytes (RBC)	5-6		0 - 5/hpf
Casts	Nil	/hpf	Absent
Crystals	Nil		Absent
Epithelial Cells	Nil		Nil
Monilia	Nil		Nil
T. Vaginalis	Nil		Nil
Urine			

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Location :

Test Name	Results	Units	Bio. Ref. Interval
Creatinine	1.00	mg/dL	0.67 - 1.5

Serum

Creatinine is the most common test to assess kidney function. Creatinine levels are converted to reflect kidney function by factoring in age and gender to produce the eGFR (estimated Glomerular Filtration Rate). As the kidney function diminishes, the creatinine level increases; the eGFR will decrease. Creatinine is formed from the metabolism of creatine and phosphocreatine, both of which are principally found in muscle. Thus the amount of creatinine produced is, in large part, dependent upon the individual's muscle mass and tends not to fluctuate much from day-to-day. Creatinine is not protein bound and is freely filtered by glomeruli. All of the filtered creatinine is excreted in the urine.

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Test Name	Results	Units	Bio. Ref. Interval
Urea	24.0	mg/dL	19.01 - 44.1

Method:Urease


Sample Type: Serum

Urea/ BUN is screening test for evaluation of kidney function. Urea is the final degradation product of protein and amino acid metabolism. In protein catabolism, the proteins are broken down to amino acids and deaminated. The ammonia formed in this process is synthesized to urea in the liver. This is the most important catabolic pathway for eliminating excess nitrogen in the human body. Increased blood urea nitrogen (BUN) may be due to prerenal causes (cardiac decompensation, water depletion due to decreased intake and excessive loss, increased protein catabolism, and high protein diet), renal causes (acute glomerulonephritis, chronic nephritis, polycystic kidney disease, nephrosclerosis, and tubular necrosis), and postrenal causes (eg, all types of obstruction of the urinary tract, such as stones, enlarged prostate gland, tumors). The determination of serum BUN currently is the most widely used screening test for the evaluation of kidney function. The test is frequently requested along with the serum creatinine test since simultaneous determination of these 2 compounds appears to aid in the differential diagnosis of prerenal, renal and postrenal hyperuremia.

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Location :			

Test Name	Results	Units	Bio. Ref. Interval
<u>ELECTROLYTES</u>			
Sodium (Na+) <small>Method:ISE</small>	143.00	mmol/L	136 - 145
Potassium (K+) <small>Method:ISE</small>	4.4	mmol/L	3.5 - 5.1
Chloride(Cl-) <small>Method:ISE</small>	H 110.00	mmol/L	98 - 107

Sample Type: Serum

Comments

The electrolyte panel is ordered to identify electrolyte, fluid, or pH imbalance. Electrolyte concentrations are evaluated to assist in investigating conditions that cause electrolyte imbalances such as dehydration, kidney disease, lung diseases, or heart conditions. Repeat testing of the electrolyte or its components may be used to monitor the patient's response to treatment of any condition that may be causing the electrolyte, fluid or pH imbalance.

----- End Of Report -----

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